



## Safety Data Sheet

### Inslogic Standard Pro Resin

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878.

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

**Product Name:** Standard Pro Resin

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** For use in LCD, SLA, and DLP 3D Printers in the range of 385-405 nm.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### 1.3 Details of the manufacturer/supplier of the safety data sheet

**Manufacturer:** Inslogic International Holding Co., Ltd.

3, 13/F, Grand City Plaza

1-17 Sai Lau Kok Road

Tsuen Wan, New Territories

Hong Kong

+852-6268-5255

**Importer:** Sea&Mew Accounting Ltd

London

Electric Avenue Vision 25,

Enfield EN3 7GD

+44 7399648608

info@seamew.net

##### 1.4 Emergency telephone number: No additional information available.

#### SECTION 2: Hazard(s) identification

##### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No. 1272/2008 (CLP):**

Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 1

Skin sensitisation, Category 1

Specific target organ toxicity - Single exposure, Category 3,

Respiratory tract irritation

Specific target organ toxicity - Repeated exposure, Category 2

**Additional Information:** May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. May cause serious eye damage.

##### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Hazard pictograms:**



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**Signal Word:** Warning

**Hazard statements:**

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation
- H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary statements:**

- P260 - Do not breathe dust/fume/gas/mist/vapours/spray
- P264 - Wash hands, forearms and face thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

**2.3 Other hazards:** None known.

### SECTION 3: Composition/information on ingredients

**3.1 Substance:** Not applicable.

**3.2 Mixture:**

| Identification                                                         | Name                                                                                                                                                                     | Classification according to Regulation (EC) No. 1272/2008 (CLP)                                                        | Weight % |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------|
| CAS-No.: 68987-79-1                                                    | 2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-hydroxyethyl acrylate-terminated | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335                                       | 50       |
| CAS-No.: 5117-12-4<br>EC-No.: 418-140-1<br>EC Index-No.: 613-222-00-3  | Morpholine, 4-(1-oxo-2-propenyl)                                                                                                                                         | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT RE 2, H373      | 35       |
| CAS-No.: 64194-22-5                                                    | 3-Methyl-1,5-pentanediy diacrylate                                                                                                                                       | Not classified                                                                                                         | 14.4     |
| CAS-No.: 13463-67-7<br>EC-No.: 236-675-5<br>EC Index-No.: 022-006-00-2 | Titanium dioxide                                                                                                                                                         | Carc. 2, H351<br>If in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ | 0.5      |
| CAS-No.: 1333-86-4<br>EC-No.: 215-609-9                                | Carbon black                                                                                                                                                             | Not classified                                                                                                         | 0.1      |

**Additional information:** None.

**Full Text of H and EUH statements:** See section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes:

Show this Safety Data Sheet to the doctor in attendance. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.

##### Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

##### Following skin contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and laundry before reuse. If skin irritation develops or persists, seek medical advice/attention.

##### Following eye contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

##### Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

##### Symptoms and effects:

Harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

##### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

#### 4.3 Indication of any immediate medical attention and special treatment needed Specific treatment:

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

##### Unsuitable extinguishing media:

Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture:

Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.

#### 5.3 Advice for firefighters

##### Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

##### Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

##### For non-emergency personnel

Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection". Ventilate spillage area. Evacuate unnecessary personnel. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### For emergency responders

Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

#### 6.3 Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### 6.4 Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

#### 7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Only those substances with limit values have been included below.

##### National occupational exposure and biological limit values:

| Titanium dioxide (13463-67-7)          |                                                           |
|----------------------------------------|-----------------------------------------------------------|
| Austria - Occupational Exposure Limits |                                                           |
| Local name                             | Titandioxid (Alveolarstaub)                               |
| MAK (OEL TWA)                          | 5 mg/m <sup>3</sup> (alveolar dust, respirable fraction)  |
| MAK (OEL STEL)                         | 10 mg/m <sup>3</sup> (alveolar dust, respirable fraction) |
| Regulatory reference                   | BGBl. II Nr. 156/2021                                     |
| Belgium - Occupational Exposure Limits |                                                           |
| Local name                             | Titane (dioxyde de) # Titaandioxide                       |
| OEL TWA                                | 10 mg/m <sup>3</sup>                                      |
| Regulatory reference                   | Koninklijk besluit/Arrêté royal 11/05/2021                |

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| <b>Titanium dioxide (13463-67-7)</b>                     |                                                                                                                                                                                          |
| <b>Bulgaria - Occupational Exposure Limits</b>           |                                                                                                                                                                                          |
| Local name                                               | Титанов диоксид                                                                                                                                                                          |
| OEL TWA                                                  | 10 mg/m <sup>3</sup> (respirable dust)                                                                                                                                                   |
| Regulatory reference                                     | Наредба № 13 от 30.12.2003 г . за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм . и доп . ДВ . бр . 47 от 2021 г ., в сила от 04.06.2021 г .) |
| <b>Croatia - Occupational Exposure Limits</b>            |                                                                                                                                                                                          |
| Local name                                               | Titanov dioksid                                                                                                                                                                          |
| GVI (OEL TWA)                                            | 10 mg/m <sup>3</sup> (total dust, inhalable particles)<br>4 mg/m <sup>3</sup> (respirable dust)                                                                                          |
| Regulatory reference                                     | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                             |
| <b>Denmark - Occupational Exposure Limits</b>            |                                                                                                                                                                                          |
| Local name                                               | Titandioxid                                                                                                                                                                              |
| OEL TWA                                                  | 6 mg/m <sup>3</sup>                                                                                                                                                                      |
| OEL STEL                                                 | 12 mg/m <sup>3</sup>                                                                                                                                                                     |
| Remark                                                   | K (betyder, at stoffet anses for at kunne væ re kræftfremkaldende)                                                                                                                       |
| Regulatory reference                                     | BEK nr 202 af 21/02/2023                                                                                                                                                                 |
| <b>Estonia - Occupational Exposure Limits</b>            |                                                                                                                                                                                          |
| Local name                                               | Titaanoksiid                                                                                                                                                                             |
| OEL TWA                                                  | 5 mg/m <sup>3</sup>                                                                                                                                                                      |
| Regulatory reference                                     | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21. 12.2022, 3)                                                                                                             |
| <b>France - Occupational Exposure Limits</b>             |                                                                                                                                                                                          |
| OEL chemical category                                    | Carcinogen category 2                                                                                                                                                                    |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                                                                                                                                                                          |
| AGW (OEL TWA)                                            | 1.25 mg/m <sup>3</sup> (respirable fraction (dust))<br>10 mg/m <sup>3</sup> (inhalable fraction (dust))                                                                                  |
| <b>Greece - Occupational Exposure Limits</b>             |                                                                                                                                                                                          |
| Local name                                               | Τιτανίου διοξειδίο                                                                                                                                                                       |
| OEL TWA                                                  | 10 mg/m <sup>3</sup> (inhalable fraction)<br>5 mg/m <sup>3</sup> (respirable fraction)                                                                                                   |
| Regulatory reference                                     | Π .Δ . 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                                |
| <b>Ireland - Occupational Exposure Limits</b>            |                                                                                                                                                                                          |
| Local name                                               | Titanium dioxide                                                                                                                                                                         |
| OEL TWA                                                  | 10 mg/m <sup>3</sup> (total inhalable dust)<br>4 mg/m <sup>3</sup> (respirable dust)                                                                                                     |
| OEL STEL                                                 | 30 mg/m <sup>3</sup> (calculated-respirable dust)<br>12 mg/m <sup>3</sup> (calculated)                                                                                                   |
| Regulatory reference                                     | Chemical Agents Code of Practice 2021                                                                                                                                                    |
| <b>Latvia - Occupational Exposure Limits</b>             |                                                                                                                                                                                          |
| Local name                                               | Titāna dioksīds                                                                                                                                                                          |
| OEL TWA                                                  | 10 mg/m <sup>3</sup>                                                                                                                                                                     |
| Regulatory reference                                     | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)                                                       |

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| <b>Titanium dioxide (13463-67-7)</b>              |                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Lithuania - Occupational Exposure Limits</b>   |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Titano dioksidas                                                                                                                                                                                                                                                                                                                                                                      |
| IPRV (OEL TWA)                                    | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                   |
| Regulatory reference                              | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                                                                                                                                                                                                                                     |
| <b>Netherlands - Occupational Exposure Limits</b> |                                                                                                                                                                                                                                                                                                                                                                                       |
| TGG-8u (OEL TWA)                                  | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Poland - Occupational Exposure Limits</b>      |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Ditlenek tytanu                                                                                                                                                                                                                                                                                                                                                                       |
| NDS (OEL TWA)                                     | 10 mg/m <sup>3</sup> (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)                                                                                                                                                                                                                                                |
| Remark                                            | Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.                                                                                                                                                |
| Regulatory reference                              | Dz. U. 2018 poz. 1286 wraz z późn. zm.                                                                                                                                                                                                                                                                                                                                                |
| <b>Portugal - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Dióxido de titânio                                                                                                                                                                                                                                                                                                                                                                    |
| OEL TWA                                           | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                  |
| OEL chemical category                             | A4 - Not Classifiable as a Human Carcinogen                                                                                                                                                                                                                                                                                                                                           |
| Remark                                            | A4 (Agente não classificável como carcinogénico no Homem)                                                                                                                                                                                                                                                                                                                             |
| Regulatory reference                              | Norma Portuguesa NP 1796:2014                                                                                                                                                                                                                                                                                                                                                         |
| <b>Romania - Occupational Exposure Limits</b>     |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Dioxid de titan                                                                                                                                                                                                                                                                                                                                                                       |
| OEL TWA                                           | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                  |
| OEL STEL                                          | 15 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                  |
| Regulatory reference                              | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                                                                                                                                                                                                                                                                                                                           |
| <b>Slovakia - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Oxid titaničitý                                                                                                                                                                                                                                                                                                                                                                       |
| NPHV (OEL TWA)                                    | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                   |
| Regulatory reference                              | Nariadenie vlády č . 355/2006 Z. z. (236/2020 Z. z.)                                                                                                                                                                                                                                                                                                                                  |
| <b>Spain - Occupational Exposure Limits</b>       |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Dióxido de titanio                                                                                                                                                                                                                                                                                                                                                                    |
| VLA-ED (OEL TWA)                                  | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                  |
| Regulatory reference                              | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT                                                                                                                                                                                                                                                                                                         |
| <b>Sweden - Occupational Exposure Limits</b>      |                                                                                                                                                                                                                                                                                                                                                                                       |
| Local name                                        | Titandioxid                                                                                                                                                                                                                                                                                                                                                                           |
| NGV (OEL TWA)                                     | 5 mg/m <sup>3</sup> (total dust)                                                                                                                                                                                                                                                                                                                                                      |
| Remark                                            | 3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiameteren är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod) |
| Regulatory reference                              | Hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                                                                                                                                   |

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| <b>Titanium dioxide (13463-67-7)</b>                 |                                                                                                                                                              |
| <b>United Kingdom - Occupational Exposure Limits</b> |                                                                                                                                                              |
| Local name                                           | Titanium dioxide                                                                                                                                             |
| WEL TWA (OEL TWA)                                    | 10 mg/m³(total inhalable)<br>4 mg/m³(respirable)                                                                                                             |
| WEL STEL (OEL STEL)                                  | 30 mg/m³(calculated-total inhalable)<br>12 mg/m³(calculated-respirable)                                                                                      |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE                                                                                                                        |
| <b>Carbon black (1333-86-4)</b>                      |                                                                                                                                                              |
| <b>Belgium - Occupational Exposure Limits</b>        |                                                                                                                                                              |
| Local name                                           | Carbone (noir de) # Koolzwart                                                                                                                                |
| OEL TWA                                              | 3 mg/m³                                                                                                                                                      |
| Regulatory reference                                 | Koninklijk besluit/Arrêté royal 11/05/2021                                                                                                                   |
| <b>Croatia - Occupational Exposure Limits</b>        |                                                                                                                                                              |
| Local name                                           | Ugljik-crni                                                                                                                                                  |
| GVI (OEL TWA)                                        | 3.5 mg/m³                                                                                                                                                    |
| KGVI (OEL STEL)                                      | 7 mg/m³                                                                                                                                                      |
| Regulatory reference                                 | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) |
| <b>Czech Republic - Occupational Exposure Limits</b> |                                                                                                                                                              |
| Local name                                           | Amorfni uhlík (Carbon Black)                                                                                                                                 |
| PEL (OEL TWA)                                        | 10 mg/m³                                                                                                                                                     |
| Remark                                               | Prachy s převážně nespecifickým účinkem.                                                                                                                     |
| Regulatory reference                                 | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                        |
| <b>Denmark - Occupational Exposure Limits</b>        |                                                                                                                                                              |
| Local name                                           | Carbon black                                                                                                                                                 |
| OEL TWA                                              | 3.5 mg/m³                                                                                                                                                    |
| OEL STEL                                             | 7 mg/m³                                                                                                                                                      |
| Remark                                               | K (betyder, at stoffet anses for at kunne være kræftfremkaldende)                                                                                            |
| Regulatory reference                                 | BEK nr 202 af 21/02/2023                                                                                                                                     |
| <b>Estonia - Occupational Exposure Limits</b>        |                                                                                                                                                              |
| OEL TWA                                              | 3 mg/m³                                                                                                                                                      |
| <b>Finland - Occupational Exposure Limits</b>        |                                                                                                                                                              |
| Local name                                           | Nokimusta                                                                                                                                                    |
| HTP (OEL TWA)                                        | 3.5 mg/m³                                                                                                                                                    |
| HTP (OEL STEL)                                       | 7 mg/m³                                                                                                                                                      |
| Regulatory reference                                 | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)                                                                                                              |
| <b>France - Occupational Exposure Limits</b>         |                                                                                                                                                              |
| Local name                                           | Noir de carbone                                                                                                                                              |
| VME (OEL TWA)                                        | 3.5 mg/m³                                                                                                                                                    |
| Remark                                               | Valeurs recommandées/admises                                                                                                                                 |
| Regulatory reference                                 | Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)                                                                                       |

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| <b>Carbon black (1333-86-4)</b>                      |                                                                                                                                                                                                        |
| <b>Greece - Occupational Exposure Limits</b>         |                                                                                                                                                                                                        |
| Local name                                           | Αιθάλη                                                                                                                                                                                                 |
| OEL TWA                                              | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                  |
| OEL STEL                                             | 7 mg/m <sup>3</sup>                                                                                                                                                                                    |
| Regulatory reference                                 | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                                                |
| <b>Hungary - Occupational Exposure Limits</b>        |                                                                                                                                                                                                        |
| Local name                                           | Ipari korom [„Carbon Black”]                                                                                                                                                                           |
| AK (OEL TWA)                                         | 3 mg/m <sup>3</sup> belélegezhető koncentráció                                                                                                                                                         |
| Regulatory reference                                 | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                       |
| <b>Ireland - Occupational Exposure Limits</b>        |                                                                                                                                                                                                        |
| Local name                                           | Carbon black                                                                                                                                                                                           |
| OEL TWA                                              | 3 mg/m <sup>3</sup> l (Inhalable Fraction)                                                                                                                                                             |
| OEL STEL                                             | 15 mg/m <sup>3</sup> (calculated-inhalable fraction)                                                                                                                                                   |
| Regulatory reference                                 | Chemical Agents Code of Practice 2021                                                                                                                                                                  |
| <b>Poland - Occupational Exposure Limits</b>         |                                                                                                                                                                                                        |
| Local name                                           | Sadza techniczna                                                                                                                                                                                       |
| NDS (OEL TWA)                                        | 4 mg/m <sup>3</sup> frakcja wdychalna                                                                                                                                                                  |
| Remark                                               | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.                                                            |
| Regulatory reference                                 | Dz. U. 2018 poz. 1286 wraz z późn. zm.                                                                                                                                                                 |
| <b>Portugal - Occupational Exposure Limits</b>       |                                                                                                                                                                                                        |
| Local name                                           | Carbono, preto (Negro de fumo)                                                                                                                                                                         |
| OEL TWA                                              | 3 mg/m <sup>3</sup> l (Fração inalável)                                                                                                                                                                |
| OEL chemical category                                | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans                                                                                                                                      |
| Remark                                               | A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)                                                                                                   |
| Regulatory reference                                 | Norma Portuguesa NP 1796:2014                                                                                                                                                                          |
| <b>Slovakia - Occupational Exposure Limits</b>       |                                                                                                                                                                                                        |
| NPHV (OEL TWA)                                       | 2 mg/m <sup>3</sup> (respirable fraction, 5% or less fibrogenic component)<br>10 mg/m <sup>3</sup> (respirable fraction, greater than 5% fibrogenic component)<br>10 mg/m <sup>3</sup> (total aerosol) |
| <b>Spain - Occupational Exposure Limits</b>          |                                                                                                                                                                                                        |
| Local name                                           | Negro de humo                                                                                                                                                                                          |
| VLA-ED (OEL TWA)                                     | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                  |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT                                                                                                                          |
| <b>Sweden - Occupational Exposure Limits</b>         |                                                                                                                                                                                                        |
| NGV (OEL TWA)                                        | 3 mg/m <sup>3</sup> (inhalable fraction)                                                                                                                                                               |
| <b>United Kingdom - Occupational Exposure Limits</b> |                                                                                                                                                                                                        |
| Local name                                           | Carbon black                                                                                                                                                                                           |
| WEL TWA (OEL TWA)                                    | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                  |
| WEL STEL (OEL STEL)                                  | 7 mg/m <sup>3</sup>                                                                                                                                                                                    |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE                                                                                                                                                                  |

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### 8.2 Exposure controls

#### Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling.  
Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

#### Personal protection equipment

##### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

##### Skin and body protection:

Impervious clothing and chemical resistant gloves

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

#### General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

#### Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Physical state                        | Liquid                           |
| Colour                                | Grey                             |
| Odour                                 | Not determined or not available. |
| Odour threshold                       | Not determined or not available. |
| Melting point                         | Not determined or not available. |
| Freezing point                        | Not determined or not available. |
| Boiling point                         | Not determined or not available. |
| Flammability                          | Non flammable.                   |
| Lower explosion limit                 | Not determined or not available. |
| Upper explosion limit                 | Not determined or not available. |
| Flash point                           | Not determined or not available. |
| Auto-ignition temperature             | Not determined or not available. |
| Decomposition temperature             | Not determined or not available. |
| pH                                    | Not determined or not available. |
| Viscosity, kinematic                  | Not determined or not available. |
| Solubility                            | Not determined or not available. |
| Partition coefficient n-octanol/water | Not determined or not available. |
| Vapour pressure                       | Not determined or not available. |
| Vapour pressure at 50°C               | Not determined or not available. |
| Density                               | Not determined or not available. |
| Relative density                      | Not determined or not available. |
| Relative vapour density at 20°C       | Not determined or not available. |
| Particle characteristics              | Not determined or not available. |

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### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

No data available/Not applicable

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

### 10.2 Chemical stability:

Stable under recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage. Stable under recommended handling and storage conditions.

### 10.4 Conditions to avoid:

None under recommended storage and handling conditions (see section 7).

### 10.5 Incompatible materials:

No additional information available

### 10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

**Acute toxicity (oral):** Harmful if swallowed.

**Acute toxicity (dermal):** Not classified.

**Acute toxicity (inhalation):** Not classified.

| Ethoxylated trimethylolpropane triacrylate (28961-43-5) |                                 |
|---------------------------------------------------------|---------------------------------|
| LD50 oral rat                                           | > 2000 mg/kg                    |
| LD50 dermal rabbit                                      | > 13 g/kg                       |
| Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)           |                                 |
| LD50 dermal rat                                         | > 2000 mg/kg (Source: ECHA_API) |
| ATE CLP (oral)                                          | 500 mg/kg bodyweight            |
| Titanium dioxide (13463-67-7)                           |                                 |
| LD50 oral rat                                           | > 10000 mg/kg (Source: IUCLID)  |
| LD50 oral                                               | > 5000 mg/kg bodyweight         |
| LD50 dermal                                             | > 10000 mg/kg bodyweight        |
| LC50 Inhalation - Rat                                   | 5.09 mg/l/4h                    |
| Carbon black (1333-86-4)                                |                                 |
| LD50 oral rat                                           | > 15400 mg/kg (Source: NLM_CIP) |

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye damage.

**Respiratory or skin sensitisation:** May cause an allergic skin reaction.

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

| Titanium dioxide (13463-67-7) |                                      |
|-------------------------------|--------------------------------------|
| IARC group                    | 2B - Possibly carcinogenic to humans |

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|                                                      |                                                                    |
|------------------------------------------------------|--------------------------------------------------------------------|
| <b>Carbon black (1333-86-4)</b>                      |                                                                    |
| IARC group                                           | 2B - Possibly carcinogenic to humans                               |
| Reproductive toxicity                                | Not classified                                                     |
| STOT-single exposure                                 | May cause respiratory irritation.                                  |
| STOT-repeated exposure                               | May cause damage to organs through prolonged or repeated exposure. |
| <b>Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)</b> |                                                                    |
| STOT-repeated exposure                               | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                                    | Not classified                                                     |

### 11.2 Information on other hazards

**Endocrine disrupting properties:** No data available.

**Other information:** No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Hazardous to the aquatic environment, short-term (acute):** Not classified.

**Hazardous to the aquatic environment, long-term (chronic):** Not classified.

|                                                                |                                                                                                                                            |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ethoxylated trimethylolpropane triacrylate (28961-43-5)</b> |                                                                                                                                            |
| LC50 - Fish [1]                                                | 1.95 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)                                                               |
| EC50 - Crustacea [1]                                           | 70.7 mg/l                                                                                                                                  |
| EC50 72h - Algae [1]                                           | 2.2 mg/l                                                                                                                                   |
| <b>Titanium dioxide (13463-67-7)</b>                           |                                                                                                                                            |
| LC50 - Fish [1]                                                | 155 mg/l Test organisms (species): other:Japanese Medaka                                                                                   |
| EC50 - Other aquatic organisms [1]                             | > 100 mg/l Test organisms (species):                                                                                                       |
| EC50 - Other aquatic organisms [2]                             | > 10000 mg/l                                                                                                                               |
| EC50 72h - Algae [1]                                           | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| <b>Carbon black (1333-86-4)</b>                                |                                                                                                                                            |
| EC50 72h - Algae [1]                                           | > 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                    |
| EC50 72h - Algae [2]                                           | > 10000 mg/l Test organisms (species):                                                                                                     |
| ErC50 algae                                                    | > 10000 mg/l 72 hours OECD 201                                                                                                             |

### 12.2 Persistence and degradability

**Product data:** No data available.

|                                                      |                        |
|------------------------------------------------------|------------------------|
| <b>Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)</b> |                        |
| Persistence and degradability                        | Not Rapidly degradable |

### 12.3 Bioaccumulative potential

**Product data:** No data available.

|                                                                |                             |
|----------------------------------------------------------------|-----------------------------|
| <b>Ethoxylated trimethylolpropane triacrylate (28961-43-5)</b> |                             |
| Partition coefficient n-octanol/water (Log Pow)                | 2.89 (at 23 °C (at pH 8. 1) |
| <b>Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)</b>           |                             |
| Partition coefficient n-octanol/water (Log Pow)                | -0.46 (at 21 °C)            |

### 12.4 Mobility in soil

**Product data:** No data available.

### 12.5 Results of PBT and vPvB assessment

**Product data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

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### 12.6 Endocrine disrupting properties

Substance data: No data available.

### 12.7 Other adverse effects:

Additional information: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product / Packaging disposal:

Dispose contaminated packages in a safe manner in accordance with local and national regulations. Do not allow the product to be released into the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID.

### 14.1 UN number or ID number: Not regulated for transport.

| ADR                        | IMDG          | IATA          | ADN           | RID           |
|----------------------------|---------------|---------------|---------------|---------------|
| UN proper shipping name    |               |               |               |               |
| Not regulated              | Not regulated | Not regulated | Not regulated | Not regulated |
| Transport hazard class(es) |               |               |               |               |
| Not regulated              | Not regulated | Not regulated | Not regulated | Not regulated |
| Packing group              |               |               |               |               |
| Not regulated              | Not regulated | Not regulated | Not regulated | Not regulated |
| Environmental hazards      |               |               |               |               |
| Not regulated              | Not regulated | Not regulated | Not regulated | Not regulated |

### 14.2 Special precautions for user

Overland transport: Not regulated.

Transport by sea: Not regulated.

Air transport: Not regulated

Inland waterway transport: Not regulated

Rail transport: Not regulated

### 14.3 Maritime transport in bulk according to IMO instruments: Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

#### European regulations

##### REACH Annex XVII (Restriction List):

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions).

##### REACH Annex XIV (Authorisation List):

Contains no substance(s) listed on REACH Annex XIV (Authorisation List).

##### REACH Candidate List (SVHC):

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent):

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants):

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

##### Ozone Regulation (1005/2009):

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009):

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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### Explosives Precursors Regulation (2019/1148):

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

### Drug Precursors Regulation (273/2004):

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

### National regulations

#### Germany

**Employment restrictions:** Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

**Water hazard class (WGK):** WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

**Hazardous Incident Ordinance (12. BImSchV):** Is not subject of the Hazardous Incident Ordinance (12. BImSchV).

#### Netherlands

**SZW-lijst van kankerverwekkende stoffen:** None of the components are listed.

**SZW-lijst van mutagene stoffen:** None of the components are listed.

**SZW-lijst van reprotoxische stoffen - Borstvoeding:** None of the components are listed.

**SZW-lijst van reprotoxische stoffen - Vruchtbaarheid:** None of the components are listed.

**SZW-lijst van reprotoxische stoffen - Ontwikkeling:** None of the components are listed.

#### Denmark

**Danish National Regulations:** Young people under 18 years are not allowed to use the product. Pregnant/breastfeeding women working with the product must not be in direct contact with it.

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate                                                                         |
| BCF                         | Bioconcentration factor                                                                         |
| BLV                         | Biological limit value                                                                          |
| BOD                         | Biochemical oxygen demand (BOD)                                                                 |
| COD                         | Chemical oxygen demand (COD)                                                                    |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC-No.                      | European Community number                                                                       |
| EC50                        | Effective concentration for 50 percent of test population (median effective concentration)      |
| EN                          | European Standard                                                                               |
| IARC                        | International Agency for Research on Cancer                                                     |
| IATA                        | International Air Transport Association                                                         |
| IMDG                        | International Maritime Dangerous Goods                                                          |
| LC50                        | Lethal concentration for 50 percent of test population (median lethal concentration)            |
| LD50                        | Lethal dose for 50 percent of test population (median lethal dose)                              |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                            |
| NOAEC                       | No-Observed Adverse Effect Concentration                                                        |
| NOAEL                       | No-Observed Adverse Effect Level                                                                |
| NOEC                        | No-Observed Effect Concentration                                                                |
| OECD                        | Organisation for Economic Co-operation and Development                                          |
| OEL                         | Occupational Exposure Limit                                                                     |

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| Abbreviations and acronyms: |                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|
| PBT                         | Persistent Bioaccumulative Toxic                                                |
| PNEC                        | Predicted No-Effect Concentration                                               |
| RID                         | Regulation concerning the International Carriage of Dangerous Goods by Railways |
| SDS                         | Safety Data Sheet                                                               |
| STP                         | Sewage treatment plant                                                          |
| ThOD                        | Theoretical oxygen demand (ThOD)                                                |
| TLM                         | Median Tolerance Limit                                                          |
| VOC                         | Volatile Organic Compounds                                                      |
| CAS-No.                     | Chemical Abstract Service number                                                |
| N.O.S.                      | Not Otherwise Specified                                                         |
| vPvB                        | Very Persistent and Very Bioaccumulative                                        |
| ED                          | Endocrine disrupting properties                                                 |

| Full text of H- and EUH-statements: |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                          |
| Carc. 2                             | Carcinogenicity, Category 2                                                                |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                                              |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                              |
| H302                                | Harmful if swallowed.                                                                      |
| H315                                | Causes skin irritation.                                                                    |
| H317                                | May cause an allergic skin reaction.                                                       |
| H318                                | Causes serious eye damage.                                                                 |
| H319                                | Causes serious eye irritation.                                                             |
| H335                                | May cause respiratory irritation.                                                          |
| H351                                | Suspected of causing cancer.                                                               |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                         |
| H412                                | Harmful to aquatic life with long lasting effects.                                         |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                                      |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                                             |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                                                            |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2                             |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

**Disclaimer:**

This product has been classified in accordance with REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation, and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**